

What Is Claimed Is:

1 1. A sand-filtering device for filtering sands produced by
2 a sandblast machine, comprising:

3 a housing connected to the sandblast machine to receive the
4 sands;

5 a supporting plate detachably mounted in the housing;
6 at least one filtering sleeve hung on the supporting plate;
7 and

8 a division module detachably mounted in the housing, the
9 division module having at least one passage connected to the
10 filtering sleeve.

1 2. A sand-filtering device as claimed in claim 1, wherein
2 the division module further has a frame body and a division
3 plate, the frame body is hollow, the division plate is movably
4 inserted in the frame body, the division plate defines a first
5 through hole, the frame body defines a second through hole, the
6 first hole communicates with the second hole when the division
7 plate is moved to a first position, and the second through hole
8 is closed by the division plate when the division plate is moved
9 to a second position.

1 3. A sand-filtering device as claimed in claim 2, wherein
2 the frame body is rectangular and has a first surface and a second
3 surface opposite to the first surface, and the second surface
4 defines the second through hole.

1 4. A sand-filtering device as claimed in claim 3, wherein
2 the frame body further has a hollow cylinder disposed on the

3 first surface, the hollow cylinder has a bore, and the bore
4 communicates with the first through hole and the second through
5 hole when the division plate is moved to the first position.

1 5. A sand-filtering device as claimed in claim 1, further
2 comprising two tracks mounted in the housing to respectively
3 support the supporting plate and the division module so that the
4 supporting plate and the division module are detachable from the
5 tracks.

1 6. A sand-filtering device as claimed in claim 1, further
2 comprising an air pump pumping the sands through the passage into
3 the filtering sleeve so that the sands are filtered by the
4 filtering sleeve.

1 7. A sand-filtering device as claimed in claim 6, wherein
2 the housing has an air intake and an air outlet, the air intake
3 is connected to the sandblast machine, between the supporting
4 plate and the division module define a space, the filtering
5 sleeve is disposed in the space, the filtering sleeve has a first
6 end and a second end, the first end of the filtering sleeve is
7 fixed to the supporting plate, the second end of the filtering
8 sleeve is open and connected to the passage, the air pump is
9 mounted at the air outlet to pump the sands into the filtering
10 sleeve, whereby the filtering sleeve follows the supporting
11 plate and the division module to be removed out from the housing.